

Title (en)  
HYPOEUTECTOID BEARING STEEL

Title (de)  
HYPOEUTECTOID-LAGERSTAHL

Title (fr)  
ACIER À ROULEMENTS HYPOEUTECTOÏDE

Publication  
**EP 2900839 B1 20200909 (EN)**

Application  
**EP 13766367 A 20130926**

Priority

- EP 12186172 A 20120926
- EP 2013070032 W 20130926
- EP 13766367 A 20130926

Abstract (en)

[origin: WO2014049032A1] The present invention provides a steel alloy comprising: from 0.6 to 0.9 wt.% carbon, from 0.1 to 0.5 wt.% silicon, from 0.1 to 1.5 wt.% manganese, from 1.5 to 2.0 wt.% chromium, from 0.2 to 0.6 wt.% molybdenum, from 0 to 0.25 wt.% nickel, from 0 to 0.3 wt.% copper, from 0 to 0.2 wt.% vanadium, from 0 to 0.2 wt.% cobalt, from 0 to 0.2 wt.% aluminium, from 0 to 0.1 wt.% niobium, from 0 to 0.2 wt.% tantalum, from 0 to 0.05 wt.% phosphorous, from 0 to 0.03 wt.% sulphur, from 0 to 0.075 wt.% tin, from 0 to 0.075 wt.% antimony, from 0 to 0.075 wt.% arsenic, from 0 to 0.01 wt.% lead, up to 350 ppm nitrogen, up to 100 ppm oxygen, up to 50 ppm calcium, up to 50 ppm boron, up to 50 ppm titanium, the balance iron, together with any other unavoidable impurities, wherein the alloy comprises molybdenum and silicon in a weight ratio of  $0.4 \leq \text{Mo/Si} \leq 6.0$  and comprises molybdenum and chromium in a weight ratio of  $0.1 \leq \text{Mo/Cr} \leq 0.4$ .

IPC 8 full level  
**C22C 38/22** (2006.01); **F16C 33/12** (2006.01)

CPC (source: EP US)

**C21D 1/20** (2013.01 - EP US); **C21D 1/32** (2013.01 - EP US); **C22C 38/001** (2013.01 - EP US); **C22C 38/002** (2013.01 - EP US);  
**C22C 38/008** (2013.01 - EP US); **C22C 38/02** (2013.01 - EP US); **C22C 38/04** (2013.01 - EP US); **C22C 38/06** (2013.01 - EP US);  
**C22C 38/22** (2013.01 - EP US); **C22C 38/24** (2013.01 - EP US); **C22C 38/26** (2013.01 - EP US); **C22C 38/42** (2013.01 - EP US);  
**C22C 38/44** (2013.01 - EP US); **C22C 38/46** (2013.01 - EP US); **C22C 38/50** (2013.01 - EP US); **C22C 38/54** (2013.01 - EP US);  
**F16C 33/121** (2013.01 - EP US); **C21D 2211/002** (2013.01 - EP US); **F16C 2204/64** (2013.01 - EP US); **F16C 2204/70** (2013.01 - EP US)

Citation (examination)

C. WEGST / M. WEGST: "Stahlschlüssel", 1 January 2007, VERLAG STAHL SCHLÜSSEL WEGST GMBH, D-71672 Marbach, ISBN: 978-3-922599-23-4, pages: 495 - 495

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**WO 2014049032 A1 20140403**; CN 104662192 A 20150527; CN 104662192 B 20181016; EP 2900839 A1 20150805; EP 2900839 B1 20200909;  
JP 2015537113 A 20151224; US 11078559 B2 20210803; US 2015361533 A1 20151217; US 2018223402 A1 20180809;  
US 9963766 B2 20180508

DOCDB simple family (application)

**EP 2013070032 W 20130926**; CN 201380050233 A 20130926; EP 13766367 A 20130926; JP 2015533574 A 20130926;  
US 201314431342 A 20130926; US 201815944921 A 20180404